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Unix The Basics

Manage files, set up networks, and go online with UNIX! UNIX For Dummies has been the standard for beginning

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UNIX references for nearly ten years, and this latest edition continues that tradition of success. This unparalleled resource is updated to cover the latest applications of

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UNIX technology, including Linux and Mac desktops as well as how UNIX works with Microsoft server software Thorough coverage of how to handle: UNIX installation file

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management software
utilities networks
Internet access ther basic
tasks A great guide for
the first-time UNIX
desktop user growing
accustomed to the ins and

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outs of the OS, as well as the beginning administrators who needs to get a handle on UNIX networking basics. Written by John Levine and Margaret Levine Young,

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longtime UNIX experts and highly experienced For Dummies authors.

Introduces the UNIX environment for the Mac OS X and explains how to set up and configure the

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Terminal application; how to manage, create, and edit files; and how to navigate the Internet. By its very nature, Unix is a "power tools" environment. Even

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beginning Unix users quickly grasp that immense power exists in shell programming, aliases and history mechanisms, and various editing tools. Nonetheless, few users

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ever really master the power available to them with Unix. There is just too much to learn! Unix Power Tools, Third Edition, literally contains thousands of

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tips, scripts, and techniques that make using Unix easier, more effective, and even more fun. This book is organized into hundreds of short articles with plenty

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of references to other sections that keep you flipping from new article to new article. You'll find the book hard to put down as you uncover one interesting tip after

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another. With the growing popularity of Linux and the advent of Mac OS X, Unix has metamorphosed into something new and exciting. With Unix no longer perceived as a

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difficult operating system, more and more users are discovering its advantages for the first time. The latest edition of this best-selling favorite is loaded with

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advice about almost every aspect of Unix, covering all the new technologies that users need to know. In addition to vital information on Linux, Mac OS X, and BSD, Unix Power

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Tools, Third Edition, now offers more coverage of bcash, zsh, and new shells, along with discussions about modern utilities and applications. Several

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sections focus on security and Internet access, and there is a new chapter on access to Unix from Windows, addressing the heterogeneous nature of systems today. You'll also

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find expanded coverage of software installation and packaging, as well as basic information on Perl and Python. The book's accompanying web site provides some of the best

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software available to Unix users, which you can download and add to your own set of power tools. Whether you are a newcomer or a Unix power user, you'll find yourself

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thumbing through the gold mine of information in this new edition of Unix Power Tools to add to your store of knowledge. Want to try something new? Check this book first, and

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you're sure to find a tip or trick that will prevent you from learning things the hard way.

To thoroughly understand what makes Linux tick and why it's so efficient, you

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need to delve deep into the heart of the operating system--into the Linux kernel itself. The kernel is Linux--in the case of the Linux operating system, it's the only bit

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of software to which the term "Linux" applies. The kernel handles all the requests or completed I/O operations and determines which programs will share its processing time, and

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in what order. Responsible for the sophisticated memory management of the whole system, the Linux kernel is the force behind the legendary Linux efficiency. The new

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edition of Understanding the Linux Kernel takes you on a guided tour through the most significant data structures, many algorithms, and programming tricks used in

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the kernel. Probing beyond the superficial features, the authors offer valuable insights to people who want to know how things really work inside their machine. Relevant segments

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of code are dissected and discussed line by line.

The book covers more than just the functioning of the code, it explains the theoretical underpinnings for why Linux does things

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the way it does. The new edition of the book has been updated to cover version 2.4 of the kernel, which is quite different from version 2.2: the virtual memory system is

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entirely new, support for multiprocessor systems is improved, and whole new classes of hardware devices have been added. The authors explore each new feature in detail.

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Other topics in the book include: Memory management including file buffering, process swapping, and Direct memory Access (DMA) The Virtual Filesystem and the Second Extended

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Filesystem Process
creation and scheduling
Signals, interrupts, and
the essential interfaces
to device drivers Timing
Synchronization in the
kernel Interprocess

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Communication (IPC)

Program execution

Understanding the Linux

Kernel, Second Edition

will acquaint you with all

the inner workings of

Linux, but is more than

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just an academic exercise.
You'll learn what
conditions bring out
Linux's best performance,
and you'll see how it
meets the challenge of
providing good system

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response during process scheduling, file access, and memory management in a wide variety of environments. If knowledge is power, then this book will help you make the

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most of your Linux system.
A Desktop Quick Reference
- Covers GNU/Linux, Mac OS
X, and Solaris
Basics of UNIX Environment
Unix and Linux Basics &
Beyond

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UNIX System Administration
Basics

A Field Guide for the Life
Sciences (and Other Data-
rich Pursuits)

Linux Basics for Hackers
Introduction to the Command

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Line is a visual guide that teaches the most important Unix and Linux shell commands in a simple and straight forward manner. Command line programs covered in this book are demonstrated with typical

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usage to aid in the learning process and help you master the command line quickly and easily. Covers popular Unix, Linux, and BSD systems.

The Art of UNIX Programming poses the belief that understanding the unwritten

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UNIX engineering tradition and mastering its design patterns will help programmers of all stripes to become better programmers. This book attempts to capture the engineering wisdom and

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design philosophy of the UNIX, Linux, and Open Source software development community as it has evolved over the past three decades, and as it is applied today by the most experienced programmers. Eric Raymond

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offers the next generation of "hackers" the unique opportunity to learn the connection between UNIX philosophy and practice through careful case studies of the very best UNIX/Linux programs.

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Updated to include new material on the World Wide Web, Java, and HTML, this book provides a gentle introduction to UNIX, using a tutorial approach to make it suitable for classroom use or for self-paced study.

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Unix is a computer Operating System which is capable of handling activities from multiple users at the same time. The development of Unix started around 1969 at AT&T Bell Labs by Ken Thompson and Dennis Ritchie.

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This tutorial gives a very good understanding on Unix. This tutorial has been prepared for the beginners to help them understand the basics to advanced concepts covering Unix commands, Unix shell scripting and various

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utilities. We assume you have adequate exposure to Operating Systems and their functionalities. A basic understanding on various computer concepts will also help you in understanding the various exercises given

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in this tutorial.

UNIX For Dummies

Introducing UNIX and Linux

Talking Directly to the

Kernel and C Library

Understanding the Linux

Kernel

UNIX basics

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A Simple and Comprehensive
Guide

Approaching its subject
from a multitude of
angles, this book provides
an insight into the nature
of culinary taste as

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expressed in commercial restaurant settings. The influence on culinary taste by a variety of factors, including the media, gender issues, health issues, marketing

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and geography, is explored, and the way that these factors can be translated into successful business in industry is considered.

Covering all aspects of

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the Unix operating system and assuming no prior knowledge of Unix, this book begins with the fundamentals and works from the ground up to some of the more advanced

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programming techniques The authors provide a wealth of real-world experience with the Unix operating system, delivering actual examples while showing some of the common

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misconceptions and errors
that new users make
Special emphasis is placed
on the Apple Mac OS X
environment as well as
Linux, Solaris, and
migrating from Windows to

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Unix A unique conversion
section of the book
details specific advice
and instructions for
transitioning Mac OS X,
Windows, and Linux users
This book is for all

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people who are forced to use UNIX. It is a humorous book--pure entertainment--that maintains that UNIX is a computer virus with a user interface. It features

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letters from the thousands posted on the Internet's "UNIX-Haters" mailing list. It is not a computer handbook, tutorial, or reference. It is a self-help book that will let

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readers know they are not alone.

As an open operating system, Unix can be improved on by anyone and everyone: individuals, companies, universities,

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and more. As a result, the very nature of Unix has been altered over the years by numerous extensions formulated in an assortment of versions. Today, Unix encompasses

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everything from Sun's Solaris to Apple's Mac OS X and more varieties of Linux than you can easily name. The latest edition of this bestselling reference brings Unix into

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the 21st century. It's been reworked to keep current with the broader state of Unix in today's world and highlight the strengths of this operating system in all

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its various flavors. Detailing all Unix commands and options, the informative guide provides generous descriptions and examples that put those commands in context. Here

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are some of the new features you'll find in Unix in a Nutshell, Fourth Edition: Solaris 10, the latest version of the SVR4-based operating system, GNU/Linux, and Mac

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OS X Bash shell (along with the 1988 and 1993 versions of ksh) tsch shell (instead of the original Berkeley csh) Package management programs, used for program

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installation on popular
GNU/Linux systems, Solaris
and Mac OS X GNU Emacs
Version 21 Introduction to
source code management
systems Concurrent
versions system Subversion

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version control system GDB
debugger As Unix has
progressed, certain
commands that were once
critical have fallen into
disuse. To that end, the
book has also dropped

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material that is no longer relevant, keeping it taut and current. If you're a Unix user or programmer, you'll recognize the value of this complete, up-to-date Unix reference. With

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chapter overviews,
specific examples, and
detailed command.

The Textbook, Third
Edition

Berkeley UNIX
Beginning Unix

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Unix Shell Programming

Unix Power Tools

Beginning

Linux?Programming

*This book shows how UNIX can
be used effectively in the
preparation of written*

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documents, especially in the process of producing book-length documents, i.e. typesetting. As this book will demonstrate the tools available in the UNIX environment, it is also valuable to examine text processing in terms of problems and solutions: the

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problems faced by a writer undertaking a large writing project and the solutions offered by using the resources and power of a computer system.

UNIX For Dummies has been the standard for beginning UNIX references for nearly ten years,

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and this latest edition continues that tradition of success This unparalleled resource is updated to cover the latest applications of UNIX technology, including Linux and Mac desktops as well as how UNIX works with Microsoft server software Thorough

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coverage of how to handle UNIX installation, file management, software, utilities, networks, Internet access, and other basic tasks Aimed at the first-time UNIX desktop user growing accustomed to the ins and outs of the OS, as well as the beginning

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administrator who needs to get a handle on UNIX networking basics Written by John Levine and Margaret Levine Young, longtime UNIX experts and highly experienced For Dummies authors
O'Reilly's bestselling book on

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Linux's bash shell is at it again. Now that Linux is an established player both as a server and on the desktop Learning the bash Shell has been updated and refreshed to account for all the latest changes. Indeed, this third edition serves as the most

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valuable guide yet to the bash shell. As any good programmer knows, the first thing users of the Linux operating system come face to face with is the shell the UNIX term for a user interface to the system. In other words, it's what lets you communicate with

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the computer via the keyboard and display. Mastering the bash shell might sound fairly simple but it isn't. In truth, there are many complexities that need careful explanation, which is just what Learning the bash Shell provides. If you are new to shell

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programming, the book provides an excellent introduction, covering everything from the most basic to the most advanced features. And if you've been writing shell scripts for years, it offers a great way to find out what the new shell offers.

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*Learning the bash Shell is also full of practical examples of shell commands and programs that will make everyday use of Linux that much easier. With this book, programmers will learn: How to install bash as your login shell
The basics of interactive shell*

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use, including UNIX file and directory structures, standard I/O, and background jobs
Command line editing, history substitution, and key bindings
How to customize your shell environment without programming
The nuts and bolts

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*of basic shell programming, flow control structures, command-line options and typed variables
Process handling, from job control to processes, coroutines and subshells
Debugging techniques, such as trace and verbose modes
Techniques for*

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implementing system-wide shell customization and features related to system security As well as providing the background basics, this book also provides practical tips on file and directory structure. An overview of UNIX tools, communications

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and networking, shareware packages, programming and system administration is given. UNIX terms are outlined in a glossary.

The Linux Command Line

Unix in a Nutshell

UNIX

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Unix

Learning the Unix Operating System

An introductory, tutorial style text covering the basics of UNIX and Linux for the complete beginner, this is a comprehensive and well

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written introduction to these operating systems. It assumes no prior knowledge of programming nor any experience of using computers. UNIX and Linux are two of the most commonly used operating systems within the educational and corporate worlds

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and are growing in popularity. This book covers all the basic constructs and commands of UNIX and follows the 1993 POSIX.2 International Standard. This Nutshell Handbook® is a thorough introduction to the Korn shell, both as a user interface and

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as a programming language. The Korn shell, like the C and Bourne shells, is a program that interprets UNIX commands. It has many features that aren't found in other shells, including command history (the ability to recall and edit previous

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commands). The Korn shell is also faster; several of its features allow you to write programs that execute more quickly than their Bourne or C shell equivalents. This book provides a clear and concise explanation of the Korn shell's features. It explains ksh string

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operations, co-processes, signals and signal handling, and one of the worst "dark corners" of shell programming: command-line interpretation. It does this by introducing simple real-life examples and then adding options and complexity in later

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chapters, illustrating the way real-world script development generally proceeds. An additional (and unique) programming aid, a Korn shell debugger (kshdb), is also included. Learning the Korn Shell is an ideal resource for many UNIX users and

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programmers, including software developers who want to "prototype" their designs, system administrators who want to write tools for their own use, and even novices who just want to use some of ksh's more advanced interactive features.

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UNIX, UNIX LINUX & UNIX TCL/TK.
Write software that makes the most effective use of the Linux system, including the kernel and core system libraries. The majority of both Unix and Linux code is still written at the system level, and this book helps you

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focus on everything above the kernel, where applications such as Apache, bash, cp, vim, Emacs, gcc, gdb, glibc, ls, mv, and X exist. Written primarily for engineers looking to program at the low level, this updated edition of Linux System Programming

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gives you an understanding of core internals that makes for better code, no matter where it appears in the stack. -- Provided by publisher.

Understanding UNIX introduces the UNIX operating system, providing a basic understanding

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of its architecture and operating principles. Rather than attempting to explain all the uses of each command, the book concentrates on the most practical commands and options. It gives all the necessary information to set up, use,

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maintain, and optimize a UNIX system with a minimum of trouble.

The Fat Free Guide to Unix and Linux Commands

Learn to use the Unix command-line tools and Bash shell scripting
Beginning UNIX

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Getting Started with Networking,
Scripting, and Security in Kali
The Basics

Learning the bash Shell

This comprehensive, one-
semester introduction to
Unix, used at Stanford

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University, incorporates sound pedagogy along with all the necessary reference material.

Begins with the basic commands and finishes with advanced

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programming techniques.
Offers strong coverage
of systems calls and
contains an excellent
problem set.

You may be contemplating
your first Linux

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installation. Or you may have been using Linux for years and need to know more about adding a network printer or setting up an FTP server. Running Linux,

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now in its fifth edition, is the book you'll want on hand in either case. Widely recognized in the Linux community as the ultimate getting-started

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and problem-solving book, it answers the questions and tackles the configuration issues that frequently plague users, but are seldom addressed in other

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books. This fifth edition of Running Linux is greatly expanded, reflecting the maturity of the operating system and the teeming wealth of software available

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for it. Hot consumer topics such as audio and video playback applications, groupware functionality, and spam filtering are covered, along with the basics in

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configuration and management that always have made the book popular. Running Linux covers basic communications such as mail, web surfing, and

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instant messaging, but also delves into the subtleties of network configuration--including dial-up, ADSL, and cable modems--in case you need to set up your network

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manually. The book can make you proficient on office suites and personal productivity applications--and also tells you what programming tools are

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available if you're interested in contributing to these applications. Other new topics in the fifth edition include encrypted email and

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filesystems, advanced shell techniques, and remote login applications. Classic discussions on booting, package management, kernel recompilation,

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and X configuration have also been updated. The authors of Running Linux have anticipated problem areas, selected stable and popular solutions, and provided clear

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instructions to ensure that you'll have a satisfying experience using Linux. The discussion is direct and complete enough to guide novice users, while

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still providing the additional information experienced users will need to progress in their mastery of Linux. Whether you're using Linux on a home

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workstation or
maintaining a network
server, Running Linux
will provide expert
advice just when you
need it.

Python is an ideal

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language for solving problems, especially in Linux and Unix networks. With this pragmatic book, administrators can review various tasks that often occur in the

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management of these systems, and learn how Python can provide a more efficient and less painful way to handle them. Each chapter in Python for Unix and

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Linux System

Administration presents
a particular
administrative issue,
such as concurrency or
data backup, and
presents Python

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solutions through hands-on examples. Once you finish this book, you'll be able to develop your own set of command-line utilities with Python to tackle a wide range of

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problems. Discover how this language can help you: Read text files and extract information Run tasks concurrently using the threading and forking options Get

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information from one
process to another using
network facilities

Create clickable GUIs to
handle large and complex
utilities Monitor large
clusters of machines by

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interacting with SNMP
programmatically Master
the IPython Interactive
Python shell to replace
or augment Bash, Korn,
or Z-Shell Integrate
Cloud Computing into

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your infrastructure, and
learn to write a Google
App Engine Application
Solve unique data backup
challenges with
customized scripts
Interact with MySQL,

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SQLite, Oracle,
Postgres, Django ORM,
and SQLAlchemy With this
book, you'll learn how
to package and deploy
your Python applications
and libraries, and write

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code that runs equally well on multiple Unix platforms. You'll also learn about several Python-related technologies that will make your life much

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easier.

Your research has generated gigabytes of data and now you need to analyse it. You hate using spreadsheets but it is all you know, so

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what else can you do?
This book will transform
how you work with large
and complex data sets,
teaching you powerful
programming tools for
slicing and dicing data

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to suit your needs.
Written in a fun and accessible style, this step-by-step guide will inspire and inform non-programmers about the essential aspects of

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Unix and Perl. It shows how, with just a little programming knowledge, you can write programs that could save you hours, or even days. No prior experience is

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required and new concepts are introduced using numerous code examples that you can try out for yourself. Going beyond the basics, the authors touch upon

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many broader topics that will help those new to programming, including debugging and how to write in a good programming style.

UNIX Text Processing

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A Complete Introduction

Learning the Korn Shell

The UNIX Programming

Environment

Learning Unix for Mac OS

X

Command Line

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Fundamentals

Unix has always been a fascinating subject. It allows you to experiment and play with programs to get interesting results. More over with Linux you can make best use of the graphics interface. Various chapters in

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the book take you around the many aspects of basic Unix commands, shell scripts and editing files with the help of commands. The Book is meant for beginners as well as experienced users. The goal of this book is to help the students of B. Sc. (Comp. Sc.), B. Sc.

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(I.T.), Engineering and Diploma in computer science/ Information Technology. I feel that there is room for improvement in every work. Suggestions regarding the improvement are always welcomed. Master shell basics and Unix tools and

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discover easy commands to perform complex tasks with speed
Key Features Learn why the Bash shell is widely used on Linux and iOS
Explore advanced shell concepts, such as pipes and redirection
Understand how to use Unix

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command-line tools as building blocks for different tasks

Book Description The most basic interface to a computer—the command line—remains the most flexible and powerful way of processing data and performing and automating various

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day-to-day tasks. Command Line Fundamentals begins by exploring the basics, and then focuses on the most common tool, the Bash shell (which is standard on all Linux and iOS systems). As you make your way through the book, you'll explore the

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traditional Unix command-line programs as implemented by the GNU project. You'll also learn to use redirection and pipelines to assemble these programs to solve complex problems. By the end of this book, you'll have explored the basics of shell

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scripting, allowing you to easily and quickly automate tasks. What you will learn

- Use the Bash shell to run commands
- Utilize basic Unix utilities such as cat, tr, sort, and uniq
- Explore shell wildcards to manage groups of files
- Apply useful keyboard shortcuts

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in shell Employ redirection and pipes to process data Write both basic and advanced shell scripts to automate tasks Who this book is for Command Line Fundamentals is for programmers who use GUIs but want to understand how to use the

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command line to complete tasks faster.

A handy book for someone just starting with Unix or Linux, and an ideal primer for Mac and PC users of the Internet who need to know a little about Unix on the systems they visit.

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The most effective introduction to Unix in print, covering Internet usage for email, file transfers, web browsing, and many major and minor updates to help the reader navigate the ever-expanding capabilities of the operating system.

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UNIX: The Textbook, Third Edition provides a comprehensive introduction to the modern, twenty-first-century UNIX operating system. The book deploys PC-BSD and Solaris, representative systems of the major branches of the UNIX family,

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to illustrate the key concepts. It covers many topics not covered in older, more traditional textbook approaches, such as Python, UNIX System Programming from basics to socket-based network programming using the client-server paradigm, the

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Zettabyte File System (ZFS), and the highly developed X Windows-based KDE and Gnome GUI desktop environments. The third edition has been fully updated and expanded, with extensive revisions throughout. It features a new tutorial chapter on the

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Python programming language and its use in UNIX, as well as a complete tutorial on the git command with Github. It includes four new chapters on UNIX system programming and the UNIX API, which describe the use of the UNIX system call interface for

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file processing, process management, signal handling, interprocess communication (using pipes, FIFOs, and sockets), extensive coverage of internetworking with UNIX TCP/IP using the client-server software, and considerations for the design and

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implementation of production-quality client-server software using iterative and concurrent servers. It also includes new chapters on UNIX system administration, ZFS, and container virtualization methodologies using iocage, Solaris

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Jails, and VirtualBox. Utilizing the authors ' almost 65 years of practical teaching experience at the college level, this textbook presents well-thought-out sequencing of old and new topics, well-developed and timely lessons, a Github site

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containing all of the code in the book plus exercise solutions, and homework exercises/problems synchronized with the didactic sequencing of chapters in the book. With the exception of four chapters on system programming, the book

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can be used very successfully by a complete novice, as well as by an experienced UNIX system user, in both an informal and formal learning environment. The book may be used in several computer science and information technology courses,

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including UNIX for beginners and advanced users, shell and Python scripting, UNIX system programming, UNIX network programming, and UNIX system administration. It may also be used as a companion to the undergraduate

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and graduate level courses on operating system concepts and principles.

Going Deep With the Terminal and Shell

UNIX Fundamentals

Running Linux

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Learning Unix for OS X

Unix For Dummies (5Th Ed.)

Introduction to the Command Line
(Second Edition)

UNIX For Dummies has been the
standard for beginning UNIX
references for nearly 10 years. Over

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300,000 readers have turned to the books four editions to quickly get a grip on the basics of using the UNIX OS as well as an understanding of elementary UNIX administration. UNIX For Dummies, 5th Edition follows that tradition by explaining

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how to handle UNIX installation, file management, soft-ware, utilities, networks, Internet access, and other basic tasks. This updated edition also examines how UNIX works with other platforms including Linux and Mac desktops and

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Microsoft server software.
Part I: Before the Beginning
Part II: Some Basic Stuff
Part III: Getting Things Done
Part IV: UNIX and the Net
Part V: Help!
Part VI: The Part of Tens

“As an author, editor, and publisher,
I never paid much attention to the

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competition—except in a few cases. This is one of those cases. The UNIX System Administration Handbook is one of the few books we ever measured ourselves against.” —Tim O’Reilly, founder of O’Reilly Media “This edition is for

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those whose systems live in the cloud or in virtualized data centers; those whose administrative work largely takes the form of automation and configuration source code; those who collaborate closely with developers, network engineers,

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compliance officers, and all the other worker bees who inhabit the modern hive.” —Paul Vixie, Internet Hall of Fame-recognized innovator and founder of ISC and Farsight Security “This book is fun and functional as a desktop reference. If

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you use UNIX and Linux systems, you need this book in your short-reach library. It covers a bit of the systems' history but doesn't bloviate. It's just straight-forward information delivered in a colorful and memorable fashion.” —Jason A.

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Nunnelley UNIX® and Linux®
System Administration Handbook,
Fifth Edition, is today's definitive
guide to installing, configuring, and
maintaining any UNIX or Linux
system, including systems that
supply core Internet and cloud

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infrastructure. Updated for new distributions and cloud environments, this comprehensive guide covers best practices for every facet of system administration, including storage management, network design and administration,

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security, web hosting, automation, configuration management, performance analysis, virtualization, DNS, security, and the management of IT service organizations. The authors—world-class, hands-on technologists—offer indispensable

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new coverage of cloud platforms, the DevOps philosophy, continuous deployment, containerization, monitoring, and many other essential topics. Whatever your role in running systems and networks built on UNIX or Linux, this

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conversational, well-written guide will improve your efficiency and help solve your knottiest problems. This practical, tutorial-style book uses the Kali Linux distribution to teach Linux basics with a focus on how hackers would use them.

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